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Global Mobile OIS Controller IC Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Mobile OIS Controller IC market size is expected to reach $ 623 million by 2032, rising at a market growth of -3.7% CAGR during the forecast period (2026-2032).

A mobile 6-axis inertial measurement unit, or 6-axis IMU, is a MEMS inertial sensor that integrates a 3-axis accelerometer and a 3-axis gyroscope into a single chip or package. Its core role is to deliver continuous attitude, angular-rate, and linear-acceleration data for smartphones and adjacent mobile devices under extremely tight power and space constraints, thereby enabling screen rotation, step and motion recognition, gaming and gesture interaction, indoor navigation, head tracking, and optical or electronic image stabilization in camera modules. Current mainstream products generally adopt system-in-package or compact LGA packaging and compete around low noise, wide bandwidth, temperature stability, fast synchronization, low latency, and multi-interface compatibility, typically supporting I2C and SPI, with higher-end devices further adding I3C, sensor fusion, motion co-processors, finite-state machines, machine-learning cores, or dual-SPI enhancements to reduce host workload and improve always-on user experience. In terms of delivery form, the market includes both standard 6-axis IMU chips and differentiated variants with embedded sensor fusion, AI processing, OIS enhancement, or features tailored for TWS and XR. In essence, this is a market where foundational motion-sensing components and platform-like sensing devices coexist. Direct customers are mainly smartphone OEMs, ODMs, module makers, and wearable device vendors, while competition is concentrated on performance, power consumption, package size, algorithm support, and design-in capability.

The mobile 6-axis IMU is no longer merely an auxiliary sensor inside smartphones. It has become a foundational sensing node for spatial awareness, interaction understanding, and image stabilization across mobile devices. Bosch Sensortec directly

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positions its IMUs for advanced smartphones, wearables, AR, and VR, and explicitly highlights real-time motion detection, indoor navigation, gesture and activity recognition, and optical image stabilization. TDK InvenSense and STMicroelectronics further extend the value proposition toward high-quality imaging, always-on experiences, spatial audio, and 3D head tracking. This shows that market demand has evolved from early use cases such as screen rotation and step counting to multi-scenario real-time sensing and low-latency feedback. For smartphone makers, the 6-axis IMU is not a single-function component. It is a core data source connecting imaging, interaction, navigation, gaming, audio, and power management. Vendors that can maintain higher precision, lower noise, and stronger algorithm support within smaller footprints are more likely to win flagship designs and higher-value platforms.

From the supply-side perspective, the market has developed into a competitive structure in which international leaders coexist with fast-rising Chinese challengers. Bosch, TDK InvenSense, and ST demonstrate stronger platform capabilities on their official pages, offering not only standard 6-axis IMUs but also deeper integration of sensor fusion, time synchronization, finite-state machines, AI cores, and programmable processing capabilities into devices or supporting solutions, thereby raising the technical barrier. At the same time, the progress of mainland Chinese vendors is equally notable. QST?s QMI8658 is already positioned for smartphones, TWS, tablets, and wearables. Senodia clearly shows that its SH3001, SH3201, and SH5001 are used in smartphone and tablet platforms, while promoting OIS support and dual-SPI as key high-end differentiators. MEMSIC has also launched a scalable product path for motion interaction and consumer electronics. As a result, the market is no longer exclusively dominated by overseas players. It is increasingly characterized by globalized supply, multiple competitive tiers, and a strong domestic-substitution trend in consumer electronics applications.

Looking ahead, the growth of mobile 6-axis IMUs will not depend solely on smartphone unit shipments. It will increasingly come from rising value per device and expansion into adjacent terminals. On one hand, imaging upgrades continue to amplify the importance of gyroscope performance, low latency, and master-slave synchronization, meaning that premium photography experiences will keep driving upgrades related to OIS, EIS, and multi-camera coordination. On the other hand, TWS, XR, smart glasses, gaming peripherals, and lightweight robots are extending what used to be a smartphone-internal sensing capability into a broader range of consumer electronics devices. Combined with the mainstreaming of always-on features, edge AI, and on-device attitude fusion, future products will continue moving toward lower power, greater intelligence, smaller size, higher integration, and stronger scenario specialization. For the industry chain, the most

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optimistic outlook is not simply linear chip volume growth, but the replication of the 6-axis IMU?s role as a foundational sensing and control entry point across a much wider set of mobile and consumer terminals.

This report studies the global Mobile OIS Controller IC production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Mobile OIS Controller IC and provides market size (US$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Mobile OIS Controller IC that contribute to its increasing demand across many markets.

Highlights and key features of the study
Global Mobile OIS Controller IC total production and demand, 2021-2032, (K Units)
Global Mobile OIS Controller IC total production value, 2021-2032, (USD Million)
Global Mobile OIS Controller IC production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)
Global Mobile OIS Controller IC consumption by region & country, CAGR, 2021-2032 & (K Units)
U.S. VS China: Mobile OIS Controller IC domestic production, consumption, key domestic manufacturers and share
Global Mobile OIS Controller IC production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)
Global Mobile OIS Controller IC production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)
Global Mobile OIS Controller IC production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Mobile OIS Controller IC market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Robert Bosch GmbH, TDK Corporation, STMicroelectronics N.V., QST Corporation Limited, Senodia Technologies (Shaoxing) Co., Ltd., MEMSIC Semiconductor Co., Ltd., Hangzhou Silan Microelectronics Co., Ltd., Murata Manufacturing Co., Ltd., Seiko Epson Corporation, Japan Aviation Electronics Industry, Ltd., etc.

This report also provides key insights about market drivers, restraints, opportunities,

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new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Mobile OIS Controller IC market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US$ Millions), volume (production, consumption) & (K Units) and average price (US$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Mobile OIS Controller IC Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Mobile OIS Controller IC Market, Segmentation by Type:

On-Chip 32-bit DSP

On-Chip 32-bit MCU

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Global Mobile OIS Controller IC Market, Segmentation by Interface Configuration:

I2C And SPI Basic Type

I2C, SPI And I3C Upgraded Type

Dual-SPI Extended Type

SPI Or UART Industrial Type

Global Mobile OIS Controller IC Market, Segmentation by Performance Orientation:

Ultra-Low-Power Type

Low-Noise High-Precision Type

Wide-Range High-Dynamic Type

High-Temperature-Stable Type

Global Mobile OIS Controller IC Market, Segmentation by Application:

IOS System

Android System

Other System

Companies Profiled:

Robert Bosch GmbH

TDK Corporation

STMicroelectronics N.V.

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QST Corporation Limited

Senodia Technologies (Shaoxing) Co., Ltd.

MEMSIC Semiconductor Co., Ltd.

Hangzhou Silan Microelectronics Co., Ltd.

Murata Manufacturing Co., Ltd.

Seiko Epson Corporation

Japan Aviation Electronics Industry, Ltd.

Key Questions Answered:
1. How big is the global Mobile OIS Controller IC market?
2. What is the demand of the global Mobile OIS Controller IC market?
3. What is the year over year growth of the global Mobile OIS Controller IC market?
4. What is the production and production value of the global Mobile OIS Controller IC market?
5. Who are the key producers in the global Mobile OIS Controller IC market?
6. What are the growth factors driving the market demand?

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